Tue Jul 17 14:07:15 2001 [BLASTN 2.1.3 [Apr-1-2001], NCBI] Repeats masked (summary below) /home/ruby/va/Molbio/carpenda/temp1/ss.DNA37151 (3679 bp)

```
Sequences producing High-scoring Segment Pairs:
                                      Frame Score Match Pct E-
  1 P_AAF72414 Human PRO293 cDNA.
                                           3679
                                                3679 100
  2 P_AAX52256 Protein PRO293 cDNA clone DNA37151-1193.
                                         +
                                           3679
                                                3679 100
          Homo sapiens clone RP11-276C1, WORKING D +
  3 AC021462
                                           3658
                                                3670 100
           Homo sapiens chromosome 1 clone RP11-430
  4 AL512306 Homo sapiens chromosome 1 clone RP11-430 - 
5 NM_006338 Homo sapiens glioma amplified on chromos +
                                           3658
                                                3670 100
                                           3002
                                                3017 100
                                                        0.0
  6 AF030435
           Homo sapiens glioma amplified on chromos
                                        + 3002
                                                3017 100
>1 P_AAF72414 Human PRO293 cDNA. (3679 bp) [1 seg]
 Score = 3679 (7293 bits), Expect = 0.0
 Identities = 3679/3679 (100%), at 1,1-3679,3679, Strand +/+
  DNA37151
           ***********************
P_AAF72414
           DNA37151
             ***********************
P_AAF72414
          DNA37151
             *********************
P AAF72414
         DNA37151
         181 GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC
             *************************
         181 GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC
P_AAF72414
 DNA37151
         241 AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG
             *********************
P_AAF72414
         241 AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG
 DNA37151
         301 CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC
             ***********************
P_AAF72414
         301 CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC
 DNA37151
         361 ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
P_AAF72414
         361 ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
 DNA37151
         421 AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG
            ************************
P_AAF72414
         421 AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG
         481 CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG
 DNA37151
            ********************
P_AAF72414
         481 CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG
 DNA37151
         *********************
P_AAF72414
         DNA37151
         601 GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC
            ***********************
P_AAF72414
         601 GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC
 DNA37151
         661 CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCCAGAGGACAAGGAAGAAGAGAAGG
            ********************
P_AAF72414
         661 CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCCAGAGGACAAGGAAGAAGG
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DNA37151	721	CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT
P_AAF72414	721	CATATTGAGGAGGCCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT
DNA37151	781	CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA
P_AAF72414	781	CCTTGGGCCCTGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA
DNA37151	841	GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
P_AAF72414	841	GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
DNA37151	901	ACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGTGCCCGTGGTACCCTGGCATGT
P_AAF72414	901	${\tt ACTCTTGCTAGCTTGGGTGGCTGCCACTGCCACTGTGCCCGTGGTACCCTGGCATGT}$
DNA37151	961	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
P_AAF72414	961	${\tt TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA}$
DNA37151	1021	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCCGGCACT
P_AAF72414	1021	$\tt CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCGGCACT$
DNA37151	1081	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
P_AAF72414	1081	$\tt CCCCGCAGGCACACAGACCCTGCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG$
DNA37151	1141	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
P_AAF72414	1141	${\tt TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA}$
DNA37151	1201	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA *****************************
P_AAF72414	1201	$\tt TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA$
DNA37151	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
P_AAF72414	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
DNA37151	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
P_AAF72414	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
DNA37151	1381	GCTGCGGCTGCACCTCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT ****************************
P_AAF72414	1381	GCTGCGGCTGCACCTCCAACCTCCTGAGGGCCCATTGACAGCCGCTGGTTTGAAAT
DNA37151	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT ***********************************
P_AAF72414	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT
DNA37151	1501	GAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA *********************************
P_AAF72414	1501	GAACTTCCGGCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA
DNA37151		GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA **********************************
P_AAF72414		GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
DNA37151		CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA ***********************************
P_AAF72414	1621	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA

DNA37151	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
P_AAF72414	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
DNA37151	1741	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT
P_AAF72414	1741	TAAGGAGCTGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT
DNA37151	1801	GAACCTCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
P_AAF72414	1801	GAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
DNA37151	1861	CCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCT
P_AAF72414	1861	$\tt CCCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACACGCTCT$
DNA37151	1921	CAGTGCCTTGCACCAGCAGACGGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
P_AAF72414	1921	${\tt CAGTGCCTTGCACCAGCAGCAGGAGGTGGAGTCCCCAACCTGCAGGAGGTAGGT$
DNA37151	1981	CGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
P_AAF72414	1981	CGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
DNA37151	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
P_AAF72414	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
DNA37151	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
P_AAF72414	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
DNA37151	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC ******************************
P_AAF72414	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC
DNA37151	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC *********************************
P_AAF72414	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
DNA37151	2281	**************************************
P_AAF72414		TGCCCATGCAGGCAGGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT
DNA37151		GACAGCAGAAGAGGCCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC **********************************
P_AAF72414		GACAGCAGAAGAGGCCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
DNA37151		TAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
P_AAF72414		TAAGACGGTTAGTGTGTGTGGGCCGTGCTCTCCTCCAGCCAG
DNA37151		GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC ***********************************
P_AAF72414		GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
DNA37151		CCCACCCAACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
P_AAF72414		CCCACCCAACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCTCCCTC
DNA37151		GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT ********************************
P_AAF72414	2581	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT

DNA37151	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCAGGTGGCCTTTGCTGATGCCCACACCCA
P_AAF72414	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCAGGTGGCCTTTGCTGATGCCCACACCCA
DNA37151	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA *******************************
P_AAF72414	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA
DNA37151	2761	TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC
P_AAF72414	2761	TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC
DNA37151	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
P_AAF72414	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
DNA37151	2881	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTGCTCCCCTCGT **********
P_AAF72414	2881	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTGCTCCCCTCGT
DNA37151	2941	CCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACACTGTTGCC
P_AAF72414	2941	CCTGCCCTGGAATCCAGGGAGGAGACACTGTTGCC
DNA37151	3001	ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
P_AAF72414	3001	ACCATTGTCTCAAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
DNA37151	3061	CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
P_AAF72414	3061	CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
DNA37151	3121	ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
P_AAF72414	3121	${\tt ACCCACGTGCTTGAGGCCTGGGAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG}$
DNA37151	3181	GTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC
P_AAF72414	3181	GTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC
DNA37151	3241	TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCATCTT ****************************
P_AAF72414	3241	${\tt TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCCATCTT}$
DNA37151	3301	CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
P_AAF72414	3301	CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
DNA37151	3361	CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTTGC
P_AAF72414	3361	CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTCTTGTGCCTCCTGGG
DNA37151	3421	CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
P_AAF72414	3421	CAAGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
DNA37151	3481	CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
P_AAF72414	3481	CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
DNA37151	3541	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA
P_AAF72414	3541	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA

DV:> 2.04.54		
DNA37151		ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA
P_AAF72414	3601	ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA
DNA37151	3661	
P_AAF72414	3661	AATAATAACAATAAAAAA
(3679 bp) [Score = 36	1 seg 79 (7	(293 bits), Expect = 0.0
		79/3679 (100%), at 1,1-3679,3679, Strand +/+
DNA37151		AAGGAGGCTGGGAGAAAGAGGTAAGAAAGGTTAGAGAACCTACCT
P_AAX52256	1	AAGGAGGCTGGGAGAAAGAGGTAAGAAAGGTTAGAGAACCTACCT
DNA37151	61	CTCAGAAGACTCTGAAGATAACAATAATTTCAGCCCATCCACTCTCCTTCCCTCCC
P_AAX52256	61	CTCAGAAGGACTCTGAAGATAACAATAATTTCAGCCCATCCACTCTCCTTCCCTCCC
DNA37151	121	CACACATGTGCATGTACACACACACACACACACACACCTTCCTT
P_AAX52256	121	CACACATGTGCATGTACACACACACACACACACACACCTTCCTCCTCCCTC
DNA37151	181	GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC
P_AAX52256	181	GACTCACACTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC
DNA37151	241	AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG
P_AAX52256	241	AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG
DNA37151	301	CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC ************************************
P_AAX52256	301	CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC
DNA37151	361	ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
P_AAX52256	361	ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
DNA37151	421	AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG
P_AAX52256	421	AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG
DNA37151	481	CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG
P_AAX52256	481	CTGAGCCAGGAGATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG
DNA37151	541	CTGCACTCCAGCCTGGGTGACAGAATGAGACTCTGTCTCAAACAAA
P_AAX52256	541	CTGCACTCCAGCCTGGGTGACAGAATGAGACTCTGTCTCAAACAAA
DNA37151	601	GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC
P_AAX52256	601	GGGGTAGATACTGCTTCTGCAACCTCCTTAACTCTGCATCCTCTTCCTGCGGGCTGC
DNA37151	661	CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCCAGCCCCAGAGGACAAGGAAGAGAAGG
P_AAX52256	661	CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCCAGAGGACAAGGAAGAAGA
DNA37151	721	CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT

P_AAX52256	721	${\tt CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT}$
DNA37151	781	CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA
P_AAX52256	781	CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA
DNA37151	841	GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
P_AAX52256	841	GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
DNA37151	901	ACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCACTGTGCCCGTGGTACCCTGGCATGT
P_AAX52256	901	ACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCACTGTGCCCGTGGTACCCTGGCATGT
DNA37151	961	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
P_AAX52256	961	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
DNA37151	1021	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCGGCACT
P_AAX52256	1021	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCCGGCACT
DNA37151	1081	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
P_AAX52256	1081	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
DNA37151	1141	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
P_AAX52256	1141	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
DNA37151	1201	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA
P_AAX52256	1201	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA
DNA37151	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
P_AAX52256	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCCTGGCCAGCCTACAGGAACTCTA
DNA37151	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT *********************************
P_AAX52256	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
DNA37151	1381	GCTGCGGCTGCACCTCCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
P_AAX52256	1381	GCTGCGGCTGCACCTCCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
DNA37151	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT ***********************************
P_AAX52256	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT
DNA37151	1501	GAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA *********************************
P_AAX52256	1501	GAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA
DNA37151	1561	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
P_AAX52256	1561	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
DNA37151	1621	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA
P_AAX52256	1621	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA
DNA37151	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGACTTTGCCAACATGCTGCACCT

P_AAX52256	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
DNA37151	1741	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT
P_AAX52256	1741	TAAGGAGCTGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT
DNA37151	1801	GAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
P_AAX52256	1801	GAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
DNA37151	1861	CCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCT
P_AAX52256	1861	CCCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCT
DNA37151	1921	CAGTGCCTTGCACCAGCAGACGGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
P_AAX52256	1921	CAGTGCCTTGCACCAGCAGACGGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
DNA37151	1981	CGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
P_AAX52256	1981	CGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
DNA37151	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
P_AAX52256	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
DNA37151	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
P_AAX52256	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
DNA37151	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC
P_AAX52256	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC
DNA37151	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
P_AAX52256	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
DNA37151	2281	TGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT
P_AAX52256	2281	TGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT
DNA37151	2341	GACAGCAGAAGAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
P_AAX52256	2341	GACAGCAGAAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
DNA37151	2401	TAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
P_AAX52256	2401	TAAGACGGTTAGTGTGGGCCGTGCTCTCCTCCAGCCAGGCAGG
DNA37151	2461	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
P_AAX52256	2461	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
DNA37151	2521	CCCACCCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCTCCCTC
P_AAX52256	2521	CCCACCCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
DNA37151	2581	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
P_AAX52256	2581	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
DNA37151	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCAGGTGGCCTTTGCTGATGCCCACACCCA ****************************

P_AAX52256	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCTGCAAGTGGCCTTTGCTGATGCCCACACCCA
DNA37151	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA
P_AAX52256	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA
DNA37151	2761	TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC
P_AAX52256	2761	TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC
DNA37151	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
P_AAX52256	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
DNA37151	2881	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTGTCTGCTCCCCTCGT
P_AAX52256	2881	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTGCTCCCCTCGT
DNA37151	2941	CCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACACTGTTGCC
P_AAX52256	2941	CCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACACTGTTGCC
DNA37151	3001	ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
P_AAX52256	3001	ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
DNA37151	3061	CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
P_AAX52256	3061	CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
. DNA37151	3121	ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
P_AAX52256	3121	ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
DNA37151	3181	GTGCTTCTGCAGCCTTGAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC *********************************
P_AAX52256	3181	GTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC
DNA37151	3241	TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCATCTT
P_AAX52256	3241	TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCATCTT
DNA37151	3301	CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
P_AAX52256	3301	CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
DNA37151	3361	CACCCCTTCCTCTTCTCTGTACAGTCTCAGTTGCTTGCTCTTGTGCCTCCTGGG
P_AAX52256	3361	CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTTGC
DNA37151	3421	CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
P_AAX52256	3421	CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
DNA37151	3481	CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
P_AAX52256	3481	CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
DNA37151	3541	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA
P_AAX52256	3541	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA
DNA37151	3601	ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAATAAAATA

P_AAX52256 3601 ATGTGTCACCTCCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA DNA37151 3661 AATAATAACAATAAAAAA P_AAX52256 3661 AATAATAACAATAAAAAA >3 AC021462 Homo sapiens clone RP11-276C1, WORKING DRAFT SEQUENCE, 21 unordered (153023 bp) [1 seg] Score = 3658 (7251 bits), Expect = 0.0 Identities = 3670/3674 (99%), at 1,129821-3674,133494, Strand +/+ DNA37151 *********************** AC021462 DNA37151 ****************** AC021462 DNA37151 ******************* AC021462 DNA37151 181 GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC ********************* 130001 GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC AC021462 DNA37151 241 AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG ******************** AC021462 130061 AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGG 301 CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC DNA37151 **************** AC021462 130121 CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC DNA37151 361 ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA ******************* AC021462 130181 ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA DNA37151 421 AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG AC021462 130241 AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG 481 CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG DNA37151 ****************** AC021462 130301 CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG DNA37151 ********************** AC021462 DNA37151 601 GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC ******************* 130421 GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC AC021462 DNA37151 661 CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGCCCCAGAGGACAAGGAAGAAGA ****************** AC021462 130481 CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCCAGAGGACAAGGAAGAAGAAGG DNA37151 721 CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT ****************** AC021462 130541 CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT 781 CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA DNA37151

30001160	1225	********************
AC021462	130601	CCTTGGGCCCTGGCAGGCTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA
DNA37151	841	GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
AC021462	130661	GACTCTTCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC
DNA37151	901	ACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCACTGTGCCCGTGGTACCCTGGCATGT
AC021462	130721	ACTCTTGCTAGCTTGGGTGGCTGCCACTGCCGCTGTGCCCGTGGTACCCTGGCATGT
DNA37151	961	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
AC021462	130781	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
DNA37151	1021	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCCGGCACT
AC021462	130841	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCCGGCACT
DNA37151	1081	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
AC021462	130901	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
DNA37151	1141	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
AC021462	130961	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
DNA37151	1201	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA
AC021462	131021	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA
DNA37151	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
AC021462	131081	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
DNA37151	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT *********************************
AC021462	131141	TCTCAACCACCACCACCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
DNA37151	1381	GCTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
AC021462	131201	GCTGCGGCTGCACCTCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
DNA37151	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT
AC021462	131261	${\tt GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT}$
DNA37151	1501	GAACTTCCGGCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA *********************************
AC021462	131321	GAACTTCCGGCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA
DNA37151	1561	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
AC021462	131381	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
DNA37151	1621	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA
AC021462	131441	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA
DNA37151	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
AC021462	131501	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
DNA37151	1741	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT

		·····
AC021462	131561	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT
DNA37151	1801	GAACCTCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
AC021462	131621	GAACCTCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
DNA37151	1861	CCCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCT
AC021462	131681	CCCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACACCCTCT
DNA37151	1921	CAGTGCCTTGCACCAGCAGACGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
AC021462	131741	CAGTGCCTTGCACCAGCAGACGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
DNA37151	1981	CGGCAACCCCATCCGCTGTGACTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
AC021462	131801	CGGCAACCCCATCCGCTGTGACTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
DNA37151	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
AC021462	131861	$\tt CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCCC$
DNA37151	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
AC021462	131921	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
DNA37151	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC ******************************
AC021462	131981	AAGCTTCCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC
DNA37151	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
AC021462	132041	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
DNA37151	2281	TGCCCATGCAGGCAGGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT ********************************
AC021462	132101	TGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT
DNA37151	2341	GACAGCAGAAGAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
AC021462	132161	GACAGCAGAAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
DNA37151	2401	TAAGACGGTTAGTGTGTGTGGGCCGTGCTCTCCTCCAGCCAG
AC021462	132221	TAAGACGGTTAGTGTGTGTGGGCCGTGCTCTCCTCCAGCCAG
DNA37151	2461	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
AC021462	132281	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
DNA37151	2521	CCCACCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCTCCCTC
AC021462	132341	CCCACCCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
DNA37151	2581	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
AC021462	132401	GGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
DNA37151	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCTGCAAGTGGCCTTTGCTGATGCCCACACCCA
AC021462	132461	CCTTCAGGCCACGGAGTACTGGGCCTGCAAGTGGCCTTTGCTGATGCCCACACCCA
DNA37151	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCCACTTCTTGCCACAGAGCCTTAGGGGA

AC021462	132521	**************************************
DNA37151	2761	TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC
AC021462	132581	$\tt CCGTCCTGGGCTCATTGCCATCCTGGCTCTCTCTCTCTCT$
DNA37151	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
AC021462	132641	${\tt GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG$
DNA37151	2881	AGCCTGGGCTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTGTCTGCTCCCCTCGT **********
AC021462	132701	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTCCCCTCGT
DNA37151	2941	CCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACACTGTTGCC *******************************
AC021462	132761	${\tt CCTGCCCTGGAATCCAGGGGGGGGGGGGGGGGGGGGGGG$
DNA37151		ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
AC021462		ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
DNA37151		CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
AC021462		CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG
DNA37151		ACCCACGTGCTTGAGGCCTGGCAGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
AC021462		ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
DNA37151		GTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC *********************************
AC021462		GTGCTTCTGCAGCCTCGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC
DNA37151	3241	**************************************
AC021462		TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCCATCTT
DNA37151		CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG **********************
AC021462		CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
DNA37151		CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTTGC
AC021462		CACCCCTTCCTCTTCTCTGTACAGTCTCAGTTGCTTGCTCTTGTGCCTCCTGGG
DNA37151 AC021462		CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA **************************
DNA37151		CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
AC021462		CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA **********************************
DNA37151		CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
AC021462		GCCTGGCCTCGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA ****************************
DNA37151		GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTTGTAAAAAATAAAAATA
AC021462		ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA ****************
DNA37151		ATTAATAACAATAA
~~~~	2001	ANTANTANCANTAN

## AC021462 133481 AATAATAACAATAA

>4 AL512306 Homo sapiens chromosome 1 clone RP11-430C7, *** SEQUENCING IN (185048 bp) [1 seg]

Score = 3658 (7251 bits), Expect = 0.0

Identities = 3670/3674 (99%), at 1,107156-3674,103483, Strand +/-

	.00	70,5071 (5507, de 1,107150 5074,105405, Beland 1,-
DNA37151	1	AAGGAGGCTGGGAGAAAGAGGTAAGAAAGGTTAGAGAACCTACCT
AL512306	107156	AAGGAGGCTGGGAGAAAGAGGTAAGAAAGGTTAGAGAACCTACCT
DNA37151	61	CTCAGAAGGACTCTGAAGATAACAATAATTTCAGCCCATCCACTCTCCTTCCCTCCC
AL512306	107096	CTCAGAAGGACTCTGAAGATAACAATAATTTCAGCCCATCCACTCTCCTTCCCTCCC
DNA37151	121	CACACATGTGCATGTACACACACACATACACACATACACCTTCCTCTCACTGAA
AL512306	107036	CACACATGTGCATGTACACACACACACACACACACACACCTTCCTCCTCACTGAA
DNA37151	181	GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC *********************************
AL512306	106976	GACTCACAGTCACTCTGTGAGCAGGTCATAGAAAAGGACACTAAAGCCTTAAGGAC
DNA37151	241	AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGG
AL512306	106916	$\tt AGGCCTGGCCATTACCTCTGCAGCTCCTTTGGCTTGTTGAGTCAAAAAACATGGGAGGGGGGGG$
DNA37151	301	CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC ************************************
AL512306	106856	CCAGGCACGGTGACTCACACCTGTAATCCCAGCATTTTGGGAGACCGAGGTGAGCAGATC
DNA37151	361	ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
AL512306	106796	ACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCCATCTCTACTA
DNA37151	421	AAAATACAAAAATTAGCCAGGÅGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG *********************************
AL512306	106736	AAAATACAAAAATTAGCCAGGAGTGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGTGG
DNA37151	481	***************
AL512306		CTGAGCCAGGAGAATCGCTTGAATCCAGGAGGCGGAGGATGCAGTCAGCTGAGTGCACCG
DNA37151		CTGCACTCCAGCCTGGGTGACAGAATGAGACTCTGTCTCAAACAAA
AL512306		CTGCACTCCAGCCTGGGTGACAGAATGAGACTCTGTCTCAAACAAA
DNA37151		GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC
AL512306		GGGGTAGATACTGCTTCTCTGCAACCTCCTTAACTCTGCATCCTCTTCTTCCAGGGCTGC
DNA37151		CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGCCCCAGAGGACAAGGAAGAGAAGG
AL512306		CCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGAGGACAAGGAAGAAGA
DNA37151		CATATTGAGGAGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT **************************
AL512306		CATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGAGGGTGGTT
DNA37151		CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA *********************************
AL512306	1063/6	CCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCAGGACTCCA

DNA37151 AL512306		GACTCTCCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTCGTGGCCCC ***** ***************************
DNA37151		ACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCACTGTGCCCGTGGTACCCTGGCATGT
AL512306		**************************************
DNA37151	961	TCCCTGCCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
AL512306	106196	TCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGCTCGTCCTA
DNA37151	1021	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCCGGCACT
AL512306	106136	CCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCCCGGCACT
DNA37151	1081	CCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG
AL512306	106076	${\tt CCCCGCAGGCACAGACCCTGCTGCAGAGCAACAGCATTGTCCGTGTGGACCAGAG}$
DNA37151	1141	TGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
AL512306	106016	TGAGCTGGCCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGCTTTTCGGA
DNA37151	1201	TGCCCGAGACTGTGATTTCCATGCCCTGCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA
AL512306	105956	$\tt TGCCCGAGACTGTGATTTCCATGCCCTGCCCCCAGCTGCTGAGCCTGCACCTAGAGGAGAA$
DNA37151	1261	CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA
AL512306	105896	${\tt CCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAGGAACTCTA}$
DNA37151	1321	TCTCAACCACAACCAGCTCTACCGCATCGCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
AL512306	105836	TCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTCAGCAACTT
DNA37151	1381	GCTGCGGCTGCACCTCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
AL512306	105776	GCTGCGGCTGCACCTCCAACCTCCTGAGGGCCATTGACAGCCGCTGGTTTGAAAT
DNA37151	1441	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT
AL512306	105716	GCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATCCTGGACAT
DNA37151	1501	GAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA
AL512306	105656	GAACTTCCGGCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAACCTGCGGGA
DNA37151	1561	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
AL512306	105596	GATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTCTATGACAA
DNA37151	1621	CCAGCTGGCCCGGGTGCCCAGCGGGCACTGGAACAGCTGCCCGGGCTCAAGTTCCTAGA
AL512306	105536	CCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAGTTCCTAGA
DNA37151	1681	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
AL512306	105476	CCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATGCTGCACCT
DNA37151	1741	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT ***************************
AL512306	105416	TAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTTGCCCTGGT

DNA37151		GAACCTCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA ****************************
AL512306	105356	GAACCTCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCCTTCATCCA
DNA37151	1861	CCCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACGCTCT
AL512306	105296	CCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAACAACACGCTCT
DNA37151	1921	CAGTGCCTTGCACCAGCAGCAGGTGGAGTCCCTGCCCAACCTGCAGGAGGTAGGT
AL512306	105236	${\tt CAGTGCCTTGCACCAGCAGGAGGTGGAGTCCCCAACCTGCAGGAGGTAGGT$
DNA37151	1981	CGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT
AL512306	105176	$\tt CGGCAACCCCATCCGCTGTGACTGTCATCCGCTGGGCCAATGCCACGGGCACCCGTGT$
DNA37151	2041	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
AL512306	105116	CCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAGCGCCTCCC
DNA37151	2101	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCACG
AL512306	105056	GGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATCTCCCCACG
DNA37151	2161	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC ******************************
AL512306	104996	AAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCATTGCCGGGC
DNA37151	2221	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGCTTCGACTGACACC
AL512306	104936	ACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGACTGACACC
DNA37151	2281	TGCCCATGCAGGCAGGAGGTACCCGGGTGTACCCCGAGGGACCCTGGAGCTGCGGAGGGT
AL512306	104876	TGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTGCGGAGGGT
DNA37151	2341	GACAGCAGAAGAGGCAGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
AL512306	104816	GACAGCAGAAGGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGCTGACAC
DNA37151	2401	TAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
AL512306	104756	TAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
DNA37151	2461	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC ***********************************
AL512306	104696	GGGGCTGGAGCTCCGGGTGCAGGAGACCCACCCCTATCACATCCTGCTATCTTGGGTCAC
DNA37151	2521	CCCACCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
AL512306	104636	CCCACCCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
DNA37151	2581	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
AL512306	104576	GGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATTACCCGCCT
DNA37151	2641	CCTTCAGGCCACGGAGTACTGGGCCTGCCTGCAAGTGGCCTTTGCTGATGCCCACACCCA
AL512306	104516	CCTTCAGGCCACGGAGTACTGGGCCTGCCAGGTGGCCTTTGCTGATGCCCACACCCA
DNA37151	2701	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA *******************************
AL512306	104456	GTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCCTTAGGGGA

DNA37151 AL512306		TCGTCCTGGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCTGGGCTAGC ************************************
DNA37151	2821	GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
AL512306	104336	$\tt GGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG$
DNA37151	2881	AGCCTGGGCTTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTCTCCCCTCGT
AL512306	104276	${\tt AGCCTGGGCTTTCTGGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTCTCTC$
DNA37151	2941	CCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACACTGTTGCC
AL512306	104216	$\tt CCTGCCTGGAATCCAGGGGGGGGGGGGGGGGGGGGGGGG$
DNA37151	3001	ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAAAATCACTAGGA
AL512306	104156	ACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAATCACTAGGA
DNA37151	3061	CTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG ***********************************
AL512306	104096	$\tt CTACTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAGGGACATGG$
DNA37151	3121	ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGGCCCTGGGG
AL512306	104036	ACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCCTTTGTGGCCCTGGGG
DNA37151	3181	GTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC *********************************
AL512306	103976	GTGCTTCTGCAGCCTCGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGCTGCCATTC
DNA37151	3241	TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCATCTT
AL512306	103916	${\tt TGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTCCCATCTT}$
DNA37151	3301	CTCTCTGCCCAGAGGCTCCTGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG **********************
AL512306	103856	CTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCCCCGGGCTG
DNA37151	3361	CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTCTTGTGCCTCCTGGG ******************
AL512306		CACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTCTTGTGCCTCCTGGG
DNA37151	3421	CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA **************************
AL512306		CAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGTGGGAGTGA
DNA37151		CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA **********************************
AL512306		CCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCATCTCAGCA
DNA37151	3541	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA ****************************
AL512306	103616	GCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTTGTGGAGAA
DNA37151		ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA *****************
AL512306		ATGTGTCACCTCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAATAAAAATA
DNA37151		AATAATAACAATAA *********
AL512306	103496	AATAATAACAATAA

>5 NM_006338 Homo sapiens glioma amplified on chromosome 1 protein (3227 bp) [1 Score = 3002 (5951 bits), Expect = 0.0Identities = 3017/3022 (99%), at 653,161-3674,3182, Strand +/+DNA37151 653 AGGGCTGCCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGCCCCAGAGGACAAGGA ******************* NM_006338 161 AGGGCTGCCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGCCCCAGAGGACAAGGA DNA37151 713 AGAGAAGGCATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGA *********************** NM_006338 221 AGAGAAGCCATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGA DNA37151 773 GGGTGGTTCCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCA NM 006338 281 GGGTGGTTCCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCA DNA37151 *********** NM_006338 DNA37151 893 GTGGCCCCACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCACTGTGCCCGTGGTACCC ********** NM_006338 401 GTGGCCCCACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGCCGCTGTGCCCGTGGTACCC DNA37151 953 TGGCATGTTCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGC ******************** 461 TGGCATGTTCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGC NM_006338 DNA37151 1013 TCGTCCTACCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCC NM_006338 521 TCGTCCTACCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCC DNA37151 1073 CCGGCACTCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTG NM 006338 581 CCGGCACTCCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTG 1133 GACCAGAGTGAGCTGGGCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGC DNA37151 ********************* NM_006338 641 GACCAGAGTGAGCTGGCCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGC DNA37151 *********************** NM_006338 701 TTTTCGGATGCCCGAGACTGTGATTTCCATGCCCTTCCCCAGCTGCTGAGCCTGCACCTA DNA37151 1253 GAGGAGAACCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAG **************** NM_006338 761 GAGGAGAACCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAG DNA37151 1313 GAACTCTATCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTC ******************* NM_006338 821 GAACTCTATCTCAACCACCACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTC DNA37151 1373 AGCAACTTGCTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCCATTGACAGCCGCTGG ***************** NM_006338 881 AGCAACTTGCTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCATTGACAGCCGCTGG DNA37151 1433 TTTGAAATGCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATC ***************** NM_006338 941 TTTGAAATGCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATC DNA37151 1493 CTGGACATGAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAAC

***************

1001 CTGGACATGAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAAC

NM_006338

DNA37151		CTGCGGGAGATCTCCGACTATGCCCTGGAGGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTC ****************************
NM_006338	1061	CTGCGGGAGATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTC
DNA37151	1613	TATGACAACCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAG ***********************************
NM_006338	1121	TATGACAACCAGCTGGCCCGGGTGCCCAGGCGGGCACTGGAACAGGTGCCCGGGCTCAAG
DNA37151	1673	TTCCTAGACCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATG
NM_006338	1181	$\tt TTCCTAGACCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATG$
DNA37151	1733	CTGCACCTTAAGGAGCTGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTT
NM_006338	1241	$\tt CTGCACCTTAAGGAGCTGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTT$
DNA37151	1793	GCCCTGGTGAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCC
NM_006338	1301	GCCCTGGTGAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCC
DNA37151	1853	TTCATCCACCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAAC
NM_006338	1361	TTCATCCACCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAAC
DNA37151	1913	AACGCTCTCAGTGCCTTGCACCAGCAGACGGTGGAGTCCCTGCCCAACCTGCAGGAGGTA *******************************
NM_006338	1421	AACGCTCTCAGTGCCTTGCACCAGCAGACGGTGGAGTCCCTGCCCAACCTGCAGGAGGTA
DNA37151	1973	GGTCTCCACGGCAACCCCATCCGCTGTGACTGTCATCCGCTGGGCCAATGCCACGGGC
NM_006338	1481	GGTCTCCACGGCAACCCCATCCGCTGTGACTGTCTCATCCGCTGGGCCAATGCCACGGGC
DNA37151	2033	ACCCGTGTCCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAG
NM_006338	1541	ACCCGTGTCCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAG
DNA37151	2093	CGCCTCCCGGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATC
NM_006338	1601	CGCCTCCCGGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATC
DNA37151	2153	TCCCCACGAAGCTTCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCAT ************************************
NM_006338	1661	TCCCCACGAAGCTTCCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGCATGGTGCTGCAT
DNA37151	2213	TGCCGGGCACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGA ************************************
NM_006338	1721	TGCCGGGCACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGA
DNA37151	2273	CTGACACCTGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTG
NM_006338	1781	$\tt CTGACACCTGCCCATGCAGGCAGGAGGTGCCGGGTGTACCCCGAGGGGACCCTGGAGCTG$
DNA37151	2333	CGGAGGTGACAGCAGAAGAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGG
NM_006338	1841	CGGAGGGTGACAGCAGAAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGG
DNA37151	2393	GCTGACACTAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
NM_006338	1901	GCTGACACTAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
DNA37151	2453	GAAGGACAGGGGCTGGAGCTCCGGGTGCAGGAGACCCACCC
NM_006338	1961	GAAGGACAGGGGCTGGAGCTCCGGGTGCAGGAGACCCACCC

DNA37151 NM_006338		TGGGTCACCCCACCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
DNA37151		CGGGGCCAGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATT
NM_006338		CGGGGCCAGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATT
DNA37151	2633	ACCCGCCTCCTTCAGGCCACGGAGTACTGGGCCTGCCAAGTGGCCTTTGCTGATGCC
NM_006338	2141	ACCCGCCTCCTTCAGGCCACGGAGTACTGGGCCTGCCAAGTGGCCTTTGCTGATGCC
DNA37151	2693	CACACCCAGTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCC
NM_006338	2201	CACACCCAGTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCC
DNA37151	2753	TTAGGGGATCGTCCTGGGCTCATTGCCATCCTGGCTCTCTCCTCTCTCT
NM_006338	2261	TTAGGGGATCGTCCTGGCTCATTGCCATCCTGGCTGTCCTTCTCCTGGCAGCT
DNA37151	2813	GGGCTAGCGGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
NM_006338	2321	GGCTAGCGGCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGAGGCGGCCT
DNA37151	2873	CTCCCTCCAGCCTGGGCTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTGCT
NM_006338	2381	CTCCCTCCAGCCTGGGCTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTGTCTGCT
DNA37151	2933	CCCCTCGTCCTGCCCTGGAATCCAGGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACA
NM_006338	2441	CCCTCGTCCTGCCCTGGAATCCAGGGAGGAAGCTGCCCAGATCCTCAGAAGGGGAGACA
DNA37151	2993	CTGTTGCCACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAAT
NM_006338	2501	CTGTTGCCACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAAT
DNA37151	3053	CACTAGGACTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAG
NM_006338	2561	CACTAGGACTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAG
DNA37151	3113	GGACATGGACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGG
NM_006338	2621	${\tt GGACATGGACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGG}$
DNA37151	3173	CCCTGGGGGTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGC
NM_006338	2681	$\tt CCCTGGGGGTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGC$
DNA37151	3233	TGCCATTCTGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTC
NM_006338	2741	${\tt TGCCATTCTGAGGAACATCTCCAAGGAACGGGAGGGACTTTGGCTAGAGCCTCCTGCCTC}$
DNA37151	3293	CCCATCTTCTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCC
NM_006338	2801	$\tt CCCATCTTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCC$
DNA37151	3353	CCGGGCTGCACCCCTTCCTCTTCTCTCTGTACAGTCTCAGTTGCTTGC
NM_006338	2861	${\tt CCGGGCTGCACCCCTTCCTCTTCTCTTTTCTCTGTACAGTCTCAGTTGCTTGTTGCTCTTGTGC}$
DNA37151	3413	CTCCTGGGCAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGT
NM_006338	2921	CTCCTGGGCAAGGCCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGT

DNA37151	3473	GGGAGTGACCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCA
NM_006338	2981	GGGAGTGACCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCA
DNA37151	3533	TCTCAGCAGCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTT
NM_006338	3041	TCTCAGCAGCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTT
DNA37151	3593	GTGGAGAAATGTGTCACCTCCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAA
NM_006338	3101	GTGGAGAAATGTGTCACCTCCCCCAACCCGATTCACTCTTTTCTCCTGTTTTTGTAAAAAA
DNA37151	3653	TAAAAATAATAACAATAA
NM_006338	3161	ТААААТААТААСААТАА
(3227 bp) [ Score = 30	1 seg	sapiens glioma amplified on chromosome 1 protein (GAC1) mRNA 951 bits), Expect = 0.0 17/3022 (99%), at 653,161-3674,3182, Strand +/+
DNA37151	653	AGGGCTGCCCTGATGGGGCCTGGCAATGACTGAGCAGGCCCAGCCCCAGAGGACAAGGA
AF030435	161	**************************************
DNA37151	713	AGAGAAGGCATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGA
AF030435	221	AGAGAAGCATATTGAGGAGGGCAAGAAGTGACGCCCGGTGTAGAATGACTGCCCTGGGA
DNA37151	773	GGGTGGTTCCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCA
AF030435	281	GGGTGGTTCCTTGGGCCCTGGCAGGGTTGCTGACCCTTACCCTGCAAAACACAAAGAGCA
DNA37151	833	GGACTCCAGACTCTCCTTGTGAATGGTCCCCTGCCCTGC
AF030435	341	GGACTCCAGACTCTTGTGAATGGTCCCCTGCCCTGCAGCTCCACCATGAGGCTTCTC
DNA37151	893	GTGGCCCCACTCTTGCTAGCTTGGGTGGCTGGTGCCACTGTGCCCGTGGTACCC
AF030435	401	GTGGCCCCACTCTTGCTAGCTTGGGTGGCTGCCACTGCCGCTGTGCCCGTGGTACCC
DNA37151	953	TGGCATGTTCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGC ******************************
AF030435	461	TGGCATGTTCCCTGCCCCCTCAGTGTGCCTGCCAGATCCGGCCCTGGTATACGCCCCGC
DNA37151	1013	TCGTCCTACCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCC
AF030435	521	TCGTCCTACCGCGAGGCTACCACTGTGGACTGCAATGACCTATTCCTGACGGCAGTCCCC
DNA37151	1073	CCGGCACTCCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTG
AF030435	581	CCGGCACTCCCGCAGGCACACAGACCCTGCTCCTGCAGAGCAACAGCATTGTCCGTGTG
DNA37151	1133	GACCAGAGTGAGCTGGCCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGC ****************************
AF030435	641	GACCAGAGTGAGCTGGCCTACCTGGCCAATCTCACAGAGCTGGACCTGTCCCAGAACAGC
DNA37151	1193	TTTTCGGATGCCCGAGACTGTGATTTCCATGCCCTGCCC
AF030435	701	TTTTCGGATGCCCGAGACTGTGATTTCCATGCCCTTCCCCAGCTGCTGAGCCTGCACCTA
DNA37151	1253	GAGGAGAACCAGCTGACCCGGCTGGAGGACCACAGCTTTGCAGGGCTGGCCAGCCTACAG ***********************************

1313	GAACTCTATCTCAACCACAACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTC
821	GAACTCTATCTCAACCACCACCAGCTCTACCGCATCGCCCCCAGGGCCTTTTCTGGCCTC
1373	AGCAACTTGCTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCATTGACAGCCGCTGG
881	${\tt AGCAACTTGCTGCGGCTGCACCTCAACTCCAACCTCCTGAGGGCCATTGACAGCCGCTGG}$
1433	TTTGAAATGCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATC
941	$\tt TTTGAAATGCTGCCCAACTTGGAGATACTCATGATTGGCGGCAACAAGGTAGATGCCATC$
1493	CTGGACATGAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAAC
1001	$\tt CTGGACATGAACTTCCGGCCCCTGGCCAACCTGCGTAGCCTGGTGCTAGCAGGCATGAAC$
1553	CTGCGGGAGATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTC
1061	$\tt CTGCGGGAGATCTCCGACTATGCCCTGGAGGGGCTGCAAAGCCTGGAGAGCCTCTCCTTC$
1613	TATGACAACCAGCTGGCCCGGGTGCCCAGGCGGCACTGGAACAGGTGCCCGGGCTCAAG
1121	TATGACAACCAGCTGGCCCGGGTGCCCAGGCGGCACTGGAACAGGTGCCCGGGCTCAAG
1673	TTCCTAGACCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATG
1181	TTCCTAGACCTCAACAAGAACCCGCTCCAGCGGGTAGGGCCGGGGGACTTTGCCAACATG
1733	CTGCACCTTAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTT
1241	$\tt CTGCACCTTAAGGAGCTGGGACTGAACAACATGGAGGAGCTGGTCTCCATCGACAAGTTT$
	GCCCTGGTGAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCC
1301	GCCCTGGTGAACCTCCCCGAGCTGACCAAGCTGGACATCACCAATAACCCACGGCTGTCC
1853	TTCATCCACCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAAC ******************************
1361	TTCATCCACCCCGCGCCTTCCACCACCTGCCCCAGATGGAGACCCTCATGCTCAACAAC
1913	AACGCTCTCAGTGCCTTGCACCAGCAGCAGACGTGGAGTCCCTGCCCAACCTGCAGGAGGTA *******************************
1421	AACGCTCTCAGTGCCTTGCACCAGCAGACGTGGAGTCCCTGCCCAACCTGCAGGAGGTA
1973	GGTCTCCACGGCAACCCCATCCGCTGTGACTGTGTCATCCGCTGGGCCAATGCCACGGGC ******************************
1481	GGTCTCCACGGCAACCCCATCCGCTGTGACTGTCATCCGCTGGGCCAATGCCACGGGC
2033	ACCCGTGTCCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAG
1541	ACCCGTGTCCGCTTCATCGAGCCGCAATCCACCCTGTGTGCGGAGCCTCCGGACCTCCAG
2093	CGCCTCCCGGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATC
1601	CGCCTCCCGGTCCGTGAGGTGCCCTTCCGGGAGATGACGGACCACTGTTTGCCCCTCATC
2153	TCCCCACGAAGCTTCCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCAT
1661	TCCCCACGAAGCTTCCCCCCAAGCCTCCAGGTAGCCAGTGGAGAGAGCATGGTGCTGCAT
2213	TGCCGGGCACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGA ************************************
	821 1373 881 1433 941 1493 1001 1553 1061 1613 1121 1673 1181 1793 1301 1853 1361 1913 1421 1973 1481 2033 1541 2093 1601 2153 1661

AF030435	1721	${\tt TGCCGGGCACTGGCCGAACCCGAGATCTACTGGGTCACTCCAGCTGGGCTTCGA}$
DNA37151	2273	CTGACACCTGCCCATGCAGGCAGGAGGTACCGGGTGTACCCCGAGGGGACCCTGGAGCTG
AF030435	-1781	CTGACACCTGCCCATGCAGGCAGGAGGTGCCGGGTGTACCCCGAGGGGACCCTGGAGCTG
DNA37151	2333	CGGAGGGTGACAGCAGAAGAGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGG *****************************
AF030435	1841	$\tt CGGAGGGTGACAGCAGAAGGGCAGGGCTATACACCTGTGTGGCCCAGAACCTGGTGGGGGGGG$
DNA37151	2393	GCTGACACTAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
AF030435	1901	GCTGACACTAAGACGGTTAGTGTGGTTGTGGGCCGTGCTCTCCTCCAGCCAG
DNA37151	2453	GAAGGACAGGGGCTGGAGCTCCGGGTGCAGGAGACCCACCC
AF030435	1961	GAAGGACAGGGCTGGAGCTCCGGGTGCAGGAGACCCACCC
DNA37151	2513	TGGGTCACCCCACCCAACACGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
AF030435	2021	TGGGTCACCCACCAACACAGTGTCCACCAACCTCACCTGGTCCAGTGCCTCCCTC
DNA37151	2573	CGGGGCCAGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATT
AF030435	2081	CGGGGCCAGGGGCCACAGCTCTGGCCCGCCTGCCTCGGGGAACCCACAGCTACAACATT
DNA37151	2633	ACCCGCCTCCTTCAGGCCACGGAGTACTGGGCCTGCCTGC
AF030435	2141	ACCCGCCTCCTTCAGGCCACGGAGTACTGGGCCTGCCAAGTGGCCTTTGCTGATGCC
DNA37151	2693	CACACCCAGTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCC ****************************
AF030435	2201	CACACCCAGTTGGCTTGTGTATGGGCCAGGACCAAAGAGGCCACTTCTTGCCACAGAGCC
DNA37151	2753	TTAGGGGATCGTCCTGGCTCATTGCCATCCTGGCTCTCGCTGTCCTTCTCCTGGCAGCT ************************************
AF030435	2261	TTAGGGGATCGTCCTGGCTCATTGCCATCCTGGCTGTCCTTCTCCTGGCAGCT
DNA37151	2813	GGGCTAGCGGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
AF030435	2321	GGGCTAGCGGCCCACCTTGGCACAGGCCAACCCAGGAAGGGTGTGGGTGG
DNA37151	2873	CTCCCTCCAGCCTGGGCTTCTGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTGTCTGCT
AF030435	2381	CTCCCTCCAGCCTGGGCTTCTGGGGGCTGGAGTGCCCCTTCTGTCCGGGTTGTCTGCT
DNA37151	2933	CCCTCGTCCTGCCTGGAATCCAGGGAGGAGCTGCCCAGATCCTCAGAAGGGGAGACA *************************
AF030435	2441	CCCCTCGTCCTGCCCTGGAATCCAGGGGAGGAGCTGCCCAGATCCTCAGAAGGGGAGACA
DNA37151	2993	CTGTTGCCACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAAT ****************************
AF030435	2501	CTGTTGCCACCATTGTCTCAAAATTCTTGAAGCTCAGCCTGTTCTCAGCAGTAGAGAAAT
DNA37151	3053	CACTAGGACTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAG
AF030435	2561	CACTAGGACTACTTTTTACCAAAAGAGAAGCAGTCTGGGCCAGATGCCCTGCCAGGAAAG
DNA37151	3113	GGACATGGACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGG
AF030435	2621	GGACATGGACCCACGTGCTTGAGGCCTGGCAGCTGGGCCAAGACAGATGGGGCTTTGTGG
DNA37151	3173	CCCTGGGGGTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGC ********************************

AF030435	2681	CCCTGGGGGTGCTTCTGCAGCCTTGAAAAAGTTGCCCTTACCTCCTAGGGTCACCTCTGC
DNA37151	3233	TGCCATTCTGAGGAACATCTCCAAGGAACAGGAGGGACTTTGGCTAGAGCCTCCTGCCTC ***************************
AF030435	2741	TGCCATTCTGAGGAACATCTCCAAGGAACGGGAGGGACTTTGGCTAGAGCCTCCTGCCTC
DNA37151	3293	CCCATCTTCTCTCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCTACCTGTGTCC
AF030435	2801	CCCATCTTCTCTCTGCCCAGAGGCTCCTGGGCCTGGCTTGGCTGTCCCCTACCTGTGTCC
DNA37151	3353	CCGGGCTGCACCCCTTCCTCTTCTCTTCTGTACAGTCTCAGTTGCTTTGTGC ***************************
AF030435	2861	CCGGGCTGCACCCCTTCCTCTTCTCTTCTCTGTACAGTCTCAGTTGCTTGC
DNA37151	3413	CTCCTGGGCAAGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGCTGCCCTCAATGT **********************************
AF030435	2921	$\tt CTCCTGGGCAAGGGCTGAAGGAGGCCACTCCATCTCACCTCGGGGGGGCTGCCCTCAATGT$
DNA37151	3473	GGGAGTGACCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCA
AF030435	2981	GGGAGTGACCCCAGCCAGATCTGAAGGACATTTGGGAGAGGGATGCCCAGGAACGCCTCA
DNA37151	3533	TCTCAGCAGCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTT ********************************
AF030435	3041	${\tt TCTCAGCAGCCTGGGCTCGGCATTCCGAAGCTGACTTTCTATAGGCAATTTTGTACCTTT}$
DNA37151	3593	GTGGAGAAATGTGTCACCTCCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAA
AF030435	3101	GTGGAGAAATGTGTCACCTCCCCCAACCCGATTCACTCTTTTCTCCTGTTTTGTAAAAAA
DNA37151	3653	TAAAATAATAACAATAA **************
AF030435	3161	ТААААТААТААТААСААТАА



Tue Jul 17 13:25:00 2001 [BLASTP 2.1.3 [Apr-1-2001], NATR 0 5 2002 /home/ruby/va/Molbio/carpenda/temp1/p1.DNA37151 (713 aa)

## TECH CENTER 1600/2900

1 P_AAB80: 2 P_AAY13:	253 385 29.1	Fing High-scoring Segment Pairs:  Human PRO293 protein - Homo sapiens.  protein PRO293 - Homo sapiens.  glioma amplified on chromosome 1 protein ( 3718 711 100 0.0 Glioma amplified on chromosome 1 protein p 3718 711 100 0.0
Score = 373	32 (1	man PRO293 protein - Homo sapiens. (713 aa) [1 seg] 442 bits), Expect = 0.0 .3/713 (100%), Positives = 713/713 (100%), at 1,1-713,713
DNA37151	1	MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
P_AAB80253	1	MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
DNA37151	61	TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
P_AAB80253	61	TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
DNA37151	121	SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI ************************************
P_AAB80253	121	SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
DNA37151	181	DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
P_AAB80253	181	**************************************
DNA37151	241	SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
P_AAB80253	241	**************************************
DNA37151	301	IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
P_AAB80253	301	**************************************
DNA37151	361	LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
P_AAB80253	361	**************************************
DNA37151	421	LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG
P_AAB80253	421	**************************************
DNA37151	481	TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
P_AAB80253	481	**************************************
DNA37151	541	ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
P_AAB80253	541	**************************************
DNA37151		FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGOPRKGVG
P_AAB80253		**************************************

```
661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS
  DNA37151
               *******************
P AAB80253
           661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS
>2 P AAY13385 protein PRO293 - Homo sapiens. (713 aa) [1 seg]
Score = 3732 (1442 \text{ bits}), Expect = 0.0
Identities = 713/713 (100%), Positives = 713/713 (100%), at 1,1-713,713
            1 MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
  DNA37151
P AAY13385
            1 MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
  DNA37151
           61 TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
              *****************
P AAY13385
           61 TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
  DNA37151
           121 SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
              ******************
P AAY13385
           121 SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
           181 DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
  DNA37151
              *****************
P AAY13385
           181 DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
  DNA37151
          241 SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
              *******************
          241 SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
P AAY13385
  DNA37151
          301 IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
P AAY13385
          301 IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
          361 LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
  DNA37151
              *****************
P AAY13385
          361 LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
  DNA37151
          421 LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG
              *********************
          421 LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG
P AAY13385
  DNA37151
          481 TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
P AAY13385
          481 TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
          541 ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
  DNA37151
              *********
P AAY13385
          541 ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
  DNA37151
          601 FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
              P AAY13385
          601 FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
 DNA37151
          661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSONS
              ****************
P AAY13385
          661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS
```

```
>3 NP_006329.1 glioma amplified on chromosome 1 protein (leucine-rich) - Homo
 (713 aa) [1 seg]
 Score = 3718 (1436 bits), Expect = 0.0
 Identities = 711/713 (99%), Positives = 711/713 (99%), at 1,1-713,713
             1 MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
   DNA37151
               ************
NP 006329.1
             1 MRLLVAPLLLAWVAGATAAVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
   DNA37151
            61 TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
               *******************
NP 006329.1
            61 TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
   DNA37151
           121 SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
               **********************
NP 006329.1
           121 SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
           181 DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
   DNA37151
NP 006329.1
           181 DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
   DNA37151
           241 SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
               ***************
NP 006329.1
           241 SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
   DNA37151
           301 IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
               *********************
NP 006329.1
           301 IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
           361 LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
   DNA37151
               ********************
NP 006329.1
           361 LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
  DNA37151
           421 LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG
NP 006329.1
           421 LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRCRVYPEG
  DNA37151
           481 TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
               ************************
NP 006329.1
           481 TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
           541 ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
  DNA37151
               ****************
NP 006329.1
           541 ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
  DNA37151
           601 FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
               ******************
NP 006329.1
           601 FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
  DNA37151
           661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSONS
              *************
           661 GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS
>4 GAC1_HUMAN Glioma amplified on chromosome 1 protein precursor /pid=AAC39792.1
- homo sapiens (713 aa) [1 seg]
Score = 3718 (1436 \text{ bits}), Expect = 0.0
Identities = 711/713 (99%), Positives = 711/713 (99%), at 1,1-713,713
```

DNA37151	1	MRLLVAPLLLAWVAGATATVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
GAC1_HUMAN	1	L MRLLVAPLLLAWVAGATAAVPVVPWHVPCPPQCACQIRPWYTPRSSYREATTVDCNDLFL
DNA37151	61	TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
GAC1_HUMAN	61	TAVPPALPAGTQTLLLQSNSIVRVDQSELGYLANLTELDLSQNSFSDARDCDFHALPQLL
DNA37151	121	SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
GAC1_HUMAN	121	SLHLEENQLTRLEDHSFAGLASLQELYLNHNQLYRIAPRAFSGLSNLLRLHLNSNLLRAI
DNA37151	181	DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
GAC1_HUMAN	181	DSRWFEMLPNLEILMIGGNKVDAILDMNFRPLANLRSLVLAGMNLREISDYALEGLQSLE
DNA37151	241	SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
GAC1_HUMAN	241	SLSFYDNQLARVPRRALEQVPGLKFLDLNKNPLQRVGPGDFANMLHLKELGLNNMEELVS
DNA37151	301	IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
GAC1_HUMAN	301	IDKFALVNLPELTKLDITNNPRLSFIHPRAFHHLPQMETLMLNNNALSALHQQTVESLPN
DNA37151	361	LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
GAC1_HUMAN	361	LQEVGLHGNPIRCDCVIRWANATGTRVRFIEPQSTLCAEPPDLQRLPVREVPFREMTDHC
DNA37151	421	LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRYRVYPEG
GAC1_HUMAN	421	LPLISPRSFPPSLQVASGESMVLHCRALAEPEPEIYWVTPAGLRLTPAHAGRRCRVYPEG
DNA37151	481	TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
GAC1_HUMAN	481	TLELRRVTAEEAGLYTCVAQNLVGADTKTVSVVVGRALLQPGRDEGQGLELRVQETHPYH
DNA37151	541	ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
GAC1_HUMAN	541	ILLSWVTPPNTVSTNLTWSSASSLRGQGATALARLPRGTHSYNITRLLQATEYWACLQVA
DNA37151	601	FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
GAC1_HUMAN	601	FADAHTQLACVWARTKEATSCHRALGDRPGLIAILALAVLLLAAGLAAHLGTGQPRKGVG
DNA37151	661	GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS ***********************************
GAC1_HUMAN	661	GRRPLPPAWAFWGWSAPSVRVVSAPLVLPWNPGRKLPRSSEGETLLPPLSQNS